

Notice of Allowability

Application No.

09/815,447

Examiner

Jacques Veillard

Applicant(s)

MOORE ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/6/2004.
2. ☒ The allowed claim(s) is/are 3-15,32-41 and 74-82.
3. ☒ The drawings filed on 21 March 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20050208.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

C. Rones
CHARLES RONES
PRIMARY EXAMINER

Office

Notice of Allowability

Part of Paper No./Mail Date 2005020

DETAILED ACTION

1. This action is in response to the applicant's communication filed on 12/6/2004.
2. Claims 1-41 and 55-85 are pending and presented for examination.
3. Claims 3, 5, 7, 8, 10, 32, 34-39, 74, 75, 77, 78, 82 have been amended and claims 1, 2, 16-31, 55-73, 83-85 have been canceled.

Examiner's Amendment

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by CFR 1.312. To ensure consideration of such an amendment, it MUST be transmitted no later than the payment of the issue fee.

Authorization for this examiner amendment was given in a telephone interview with attorney Sean D. Burdick (Reg. No. 51,513), the undersigned for Applicant(s), on Wednesday, February 9, 2005.

The application has been amended as follow:

IN THE SPECIFICATION:

On page 20, line 2 please delete "www.w3.org/TR/REC-xml" insert
--w3.org/TR/REC-xml--

On page 20, line 5 please delete "www.xml.com/axml/testaxml.htm" insert
-- xml.com/axml/testaxml.htm--

On page 63, line 3 please delete "(see www.daml.org)"

Drawings

4. The drawing(s) filed on March 21, 2001 are accepted by the examiner.

Allowable Subject Matter

5. Claims 3-15, 32-41, 74-82 are allowed over the prior art of record.
6. The following is an examiner's statement of reasons for allowance: Applicant particularly discloses a method of ingesting, instantiating, presenting, migrating and a system for maintaining a persistent archive of a collection of data objects, wherein the archive comprising a self-describing, infrastructure-independent representation of a logical structure for the collection and a self-describing, infrastructure-independent representation of the objects by retrieving from the persistent archive a self-describing representation of a logical structure for the collection, and a representation of one or more data objects, creating a query-able mechanism in accordance with the logical structure and loading the data objects into the query-able mechanism as embodied in the independent claims 3, 5, 7, 8, and 10, in context with the other limitations of the claims was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.
7. Regarding the independent claims 32, 34, 36-39, Applicant particularly discloses a method of ingesting, instantiating, validating and transforming one or more data objects into a knowledge-based persistent archive of a collection of data objects, wherein the archive comprising a self-describing, infrastructure-independent representation of a logical structure for

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the collection, a self-describing, infrastructure-independent representation of the objects, and a self-describing, infrastructure-independent representation of knowledge relevant to the collection by transforming a representation of one or more data objects into a self-describing, infrastructure-independent representation of the data objects, verified the transformation using the knowledge relevant to the collection, and archiving the verified self-describing, infrastructure-independent representation of one or more data objects with a self-describing, infrastructure-independent representation of a logical structure for the collection, and a self-describing, infrastructure-independent representation of knowledge relevant to the collection, in context with the other limitations of the claims was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

8. Regarding the independent claims 74, 75, 77, and 78, Applicant particularly discloses a method of automatically placing, automatically validating and presenting one or more data objects within a knowledge-based persistent archive of a collection data objects, wherein the archive comprising at least one representation of the collection of data objects, at least one self-describing, infrastructure-independent, or executable specification of one or more transformation relating to the collection, and at least one self-describing, infrastructure-independent, or executable specification of one or more rules encoding knowledge relevant to the collection by executing the specification to automatically place the one or more data objects into a form suitable for instantiation onto the query-able mechanism, automatically place the one or more data objects from the collection in a form suitable for presentation and into a form suitable for migration, and automatically validate the collection, in context with the other limitations of the

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claims was not disclose by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

The closest prior art Arcot Rajasekar et al. (collection-based persistent archives, published in March 1999) disclose an infrastructure persistent archive that is independent of both a logical structure for a collection of data objects and the object itself. However, Arcot Rajasekar et al. taken alone or in combination fail to anticipate or render the Applicant's limitations above obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques Veillard whose telephone number is (571) 272-4086. The examiner can normally be reached on Mon. to Fri. from 9 Am to 4:30 PM, alt. Fri. off..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571) 272- 4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. R. Jones
CHARLES R. JONES
PRIMARY EXAMINER

J.V.

Jacques Veillard
Patent Examiner TC 2100

February 9, 2005